

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	("6088408" "20020122502" "20020136327").pn.	US-PGPUB; USPAT	OR	ON	2007/04/25 09:06
L2	13	(symbol constellation) with (map\$4 select\$4) with bit with load\$3 with power	US-PGPUB; USPAT	OR	ON	2007/04/25 10:48
L3	0	(symbol constellation) with (map\$4 select\$4) same bit with load\$3 same (additional added extra needed) adj power	US-PGPUB; USPAT	OR	ON	2007/04/25 10:39
L4	1	(symbol constellation) with (map\$4 select\$4) same bit with load\$3 same (additional added extra needed) with power	US-PGPUB; USPAT	OR	ON	2007/04/25 10:39
L5	150	bit with load\$3 same (additional added extra needed) with power	US-PGPUB; USPAT	OR	ON	2007/04/25 10:40
L6	32	bit adj load\$3 same (additional added extra needed) with power	US-PGPUB; USPAT	OR	ON	2007/04/25 10:40
L7	1	"4731816".pn.	US-PGPUB; USPAT	OR	ON	2007/04/25 10:48
S1	15	2D adj beamform\$3	US-PGPUB; USPAT	OR	ON	2007/04/16 13:21
S2	31	beamform\$3 with adaptive\$3 same channel with (state information) and diversity	US-PGPUB; USPAT	OR	ON	2007/04/16 13:25
S3	8	beamform\$3 same channel with (state information) same (constellation) and diversity	US-PGPUB; USPAT	OR	ON	2007/04/16 15:23
S4	106	space-time with beamform\$3	US-PGPUB; USPAT	OR	ON	2007/04/16 15:23
S5	5137	375/295,299,259,260,224,227.ccls.	US-PGPUB; USPAT	OR	ON	2007/04/16 15:24
S6	11	S5 and S4	US-PGPUB; USPAT	OR	ON	2007/04/16 15:24
S7	149	S5 and (CSI (channel adj state adj information))	US-PGPUB; USPAT	OR	ON	2007/04/16 15:25
S8	13	S4 and (CSI (channel adj state adj information))	US-PGPUB; USPAT	OR	ON	2007/04/16 15:34
S9	7	channel near mean near feedback	US-PGPUB; USPAT	OR	ON	2007/04/17 10:49
S10	10	channel near mean with feedback	US-PGPUB; USPAT	OR	ON	2007/04/18 09:34
S11	3	S10 not S9	US-PGPUB; USPAT	OR	ON	2007/04/17 16:42
S12	125	feedback with mean with channel	US-PGPUB; USPAT	OR	ON	2007/04/17 16:42
S13	9	mean near feedback with channel	US-PGPUB; USPAT	OR	ON	2007/04/17 16:48
S14	2251	feedback with (mean covariance)	US-PGPUB; USPAT	OR	ON	2007/04/17 16:49

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S15	6	feedback with (mean with covariance)	US-PGPUB; USPAT	OR	ON	2007/04/17 16:49
S16	0	"09816481".an.	US-PGPUB; USPAT	OR	ON	2007/04/17 17:02
S17	0	"9816481".an.	US-PGPUB; USPAT	OR	ON	2007/04/17 17:03
S18	0	"9/816481".an.	US-PGPUB; USPAT	OR	ON	2007/04/17 17:03
S19	1	"20020191703".pn.	US-PGPUB; USPAT	OR	ON	2007/04/17 17:03
S20	361	(space-time space adj time) near block adj cod\$3 same antenna	US-PGPUB; USPAT	OR	ON	2007/04/18 09:35
S21	361	(space-time space adj time) adj block adj cod\$3 same antenna	US-PGPUB; USPAT	OR	ON	2007/04/18 09:35
S22	264	(space-time space adj time) adj block adj cod\$3 with antenna	US-PGPUB; USPAT	OR	ON	2007/04/18 09:35
S23	194	(space-time space adj time) adj block adj cod\$3 with antenna same (MIMO diversity)	US-PGPUB; USPAT	OR	ON	2007/04/18 09:36
S24	194	(space adj time) adj block adj cod\$3 with antenna same (MIMO diversity)	US-PGPUB; USPAT	OR	ON	2007/04/18 09:37
S25	24	(space adj time) adj block adj cod\$3 with antenna with stream	US-PGPUB; USPAT	OR	ON	2007/04/18 10:28
S26	41	beamform\$3 with power with (allocation split\$3)	US-PGPUB; USPAT	OR	ON	2007/04/18 10:29
S27	0	beamform\$3 with power with (allocation split\$3) with modulation	US-PGPUB; USPAT	OR	ON	2007/04/18 10:29
S28	1	beamform\$3 with power with (allocation split\$3) same modulation	US-PGPUB; USPAT	OR	ON	2007/04/18 10:29
S29	4	("6002715" "20020154705" "20030043929" "20040120287").pn.	US-PGPUB; USPAT	OR	ON	2007/04/18 13:36
S30	364	beamform\$3 with (phone mobile)	US-PGPUB; USPAT	OR	ON	2007/04/18 13:49
S31	6	beamform\$3 with (mobile adj phone)	US-PGPUB; USPAT	OR	ON	2007/04/18 13:52
S32	0	(multiple plurality) adj antenna same implement with (mobile adj phone)	US-PGPUB; USPAT	OR	ON	2007/04/18 13:52
S33	0	(multiple plurality) adj antenna same implement\$3 with (mobile adj phone)	US-PGPUB; USPAT	OR	ON	2007/04/18 13:52
S34	10	(multiple plurality) adj antenna same implement\$3 with mobile adj (phone device)	US-PGPUB; USPAT	OR	ON	2007/04/18 13:54
S35	7977	mimo beamform\$3	US-PGPUB; USPAT	OR	ON	2007/04/18 14:19
S36	240	mimo same beamform\$3	US-PGPUB; USPAT	OR	ON	2007/04/18 14:19
S37	148	mimo with beamform\$3	US-PGPUB; USPAT	OR	ON	2007/04/18 14:20

## EAST Search History

S38	2473	(modulation constellation) with based with power	US-PGPUB; USPAT	OR	ON	2007/04/19 12:12
S39	103	constellation with based with power	US-PGPUB; USPAT	OR	ON	2007/04/19 12:13
S41	24	constellation with select\$3 with based with power	US-PGPUB; USPAT	OR	ON	2007/04/19 12:13
S42	3	modulator and power adj loader	US-PGPUB; USPAT	OR	ON	2007/04/23 10:59
S43	242	bit with load\$3 same constellation	US-PGPUB; USPAT	OR	ON	2007/04/23 11:02
S44	262	constellation with load\$3	US-PGPUB; USPAT	OR	ON	2007/04/23 11:02
S45	3	constellation with load\$3 and georgios.in.	US-PGPUB; USPAT	OR	ON	2007/04/23 11:05
S46	5	load\$3 with (control information) with bit with (power constellation) same CSI	US-PGPUB; USPAT	OR	ON	2007/04/23 11:50
S47	16503	(load\$3 insert\$3) with (information control) with bit	US-PGPUB; USPAT	OR	ON	2007/04/23 11:51
S48	15	(load\$3 insert\$3 inject\$3) with (information control) with bit with ((channel adj state adj information) CSI)	US-PGPUB; USPAT	OR	ON	2007/04/23 14:26
S49	256	(load\$3 insert\$3 inject\$3) with ((channel adj state adj information) CSI)	US-PGPUB; USPAT	OR	ON	2007/04/23 12:30
S50	10	(insert\$3 inject\$3) with ((channel adj state adj information) CSI) with (stream frame)	US-PGPUB; USPAT	OR	ON	2007/04/23 12:30
S51	18	(insert\$3 inject\$3) with ((channel adj state adj information) CSI) with (stream channel frame)	US-PGPUB; USPAT	OR	ON	2007/04/23 12:30
S52	3	(insert\$3 inject\$3) near2 bit with (stream frame) with ((channel adj state adj information) CSI)	US-PGPUB; USPAT	OR	ON	2007/04/23 14:29
S53	3424	(insert\$3 inject\$3) near2 bit with (stream frame channel)	US-PGPUB; USPAT	OR	ON	2007/04/23 14:29
S54	1939	(insert\$3 inject\$3) near bit with (stream frame channel)	US-PGPUB; USPAT	OR	ON	2007/04/23 14:30
S55	596	(insert\$3 inject\$3) near bit near (stream frame channel)	US-PGPUB; USPAT	OR	ON	2007/04/23 14:30
S56	4	(insert\$3 inject\$3) near bit near (stream frame channel) with (constellation power)	US-PGPUB; USPAT	OR	ON	2007/04/23 14:38
S57	495	insert\$3 with (control information) with bit with (modulation constellation power)	US-PGPUB; USPAT	OR	ON	2007/04/23 14:39
S58	327	insert\$3 with (control information) near bit with (modulation constellation power)	US-PGPUB; USPAT	OR	ON	2007/04/23 15:29
S59	1	"5442646".pn.	US-PGPUB; USPAT	OR	ON	2007/04/23 15:29
S60	7	bit adj stream with control adj (bit information) with (insert inject)	US-PGPUB; USPAT	OR	ON	2007/04/24 11:53

## EAST Search History

S61	120	(modulation constellation) with (power adj allocat\$5)	US-PGPUB; USPAT	OR	ON	2007/04/24 11:59
S62	22	(modulation constellation) with (select\$5 choos\$3) with (power adj allocat\$5)	US-PGPUB; USPAT	OR	ON	2007/04/24 16:20
S63	1	(modulation constellation) with (power adj allocat\$5) same beamform\$4	US-PGPUB; USPAT	OR	ON	2007/04/24 11:59
S64	20	(modulation constellation) with (power adj allocat\$5) and beam	US-PGPUB; USPAT	OR	ON	2007/04/24 11:59
S65	11	(modulation constellation) with (power adj allocat\$5) and beamform\$4	US-PGPUB; USPAT	OR	ON	2007/04/24 11:59
S66	14	(modulation constellation) with (power adj allocat\$5) and beam with (form\$3)	US-PGPUB; USPAT	OR	ON	2007/04/24 12:00
S67	13	(modulation constellation) with (power adj allocat\$5) and beam near (form\$3)	US-PGPUB; USPAT	OR	ON	2007/04/24 12:06
S68	2	S62 and insert	US-PGPUB; USPAT	OR	ON	2007/04/24 12:07
S69	4	S62 and (insert\$3 inject\$3)	US-PGPUB; USPAT	OR	ON	2007/04/24 12:08
S70	63	(modulation constellation) with (select\$5 choos\$3) same (power adj allocat\$5)	US-PGPUB; USPAT	OR	ON	2007/04/24 16:23
S71	17	S70 and (insert\$3 inject\$4)	US-PGPUB; USPAT	OR	ON	2007/04/24 16:23
S72	23698	(bit power) adj load\$4	US-PGPUB; USPAT	OR	ON	2007/04/24 18:00
S73	89	(bit power) adj load\$4 same OFDM	US-PGPUB; USPAT	OR	ON	2007/04/24 18:00
S74	1	"20030043929".pn.	US-PGPUB; USPAT	OR	ON	2007/04/24 18:08